

? e au=karaolis, d?

Ref	Items	Index-term
E1	1	AU=KARAOLIS, D.K.R
E2	1	AU=KARAOLIS, D.K.R.
E3	0	AU=KARAOLIS, D?
E4	2	AU=KARAOLIS, DAVID
E5	10	AU=KARAOLIS, DAVID K. R
E6	32	AU=KARAOLIS, DAVID K. R.
E7	2	AU=KARAOLIS, DAVID K.R.
E8	6	AU=KARAOLIS, DAVID KR
E9	2	AU=KARAOLIS, DK
E10	8	AU=KARAOLIS, DK*
E11	14	AU=KARAOLIS, DKR
E12	6	AU=KARAOLIS, DKR*
E13	1	AU=KARAOLIS, E
E14	6	AU=KARAOLIS, E.
E15	1	AU=KARAOLIS, GEORGE
E16	1	AU=KARAOLIS, MINAS A
E17	8	AU=KARAOLIS, N.
E18	4	AU=KARAOLIS, N.M.
E19	1	AU=KARAOLIS, NADINA
E20	1	AU=KARAOLIS, NICOS M.
E21	1	AU=KARAOLU A
E22	1	AU=KARAOLU SA
E23	1	AU=KARAOMERIIIOGIU D C
E24	1	AU=KARAOMERLIOGLU D C
E25	2	AU=KARAOMERLIOGLU DC

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? s e1-e12

	1	AU=KARAOLIS, D.K.R
	1	AU=KARAOLIS, D.K.R.
	0	AU=KARAOLIS, D?
	2	AU=KARAOLIS, DAVID
	10	AU=KARAOLIS, DAVID K. R
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	6	AU=KARAOLIS, DAVID KR
	2	AU=KARAOLIS, DK
	8	AU=KARAOLIS, DK*
	14	AU=KARAOLIS, DKR
	6	AU=KARAOLIS, DKR*
S1	83	S E1-E12

? s s1 and dinucleotide

	83	S1
	200874	DINUCLEOTIDE
S2	12	S S1 AND DINUCLEOTIDE

? rd

>>>W: Duplicate detection is not supported for File 393.  
Duplicate detection is not supported for File 391.  
Records from unsupported files will be retained in the RD set.  
S3 8 RD (UNIQUE ITEMS)

? t s3/3,k/1-8

>>>W: KWIC option is not available in file(s): 399  
3/3,K/1 (Item 1 from file: 24) Links  
Fulltext available through: STIC Full Text Retrieval Options  
CSA Life Sciences Abstracts  
(c) 2008 CSA. All rights reserved.  
0003084006 IP Accession No: 7613283  
Cyclic Di-GMP Stimulates Protective Innate Immunity in Bacterial Pneumonia  
Page 1

Untitled

Karaolis, David KR; Newstead, Michael W; Zeng, Xianying; Hyodo, Mamoru; Hayakawa, Yoshihiro; Bhan, Urvashi; Liang, Hallie; Standiford, Theodore J Intragenics Research Institute, Havre de Grace, Maryland 21078. Karagen Pharmaceuticals, Baltimore, Maryland 21210. Department of Internal Medicine, Division of Pulmonary and Critical Care Medicine, University of Michigan Medical Center, Ann Arbor, Michigan 48109. Graduate School of Information Science/Human Informatics, Nagoya University, Nagoya, Japan  
Infection and Immunity , v 75 , n 10 , p 4942-4950 , October 2007  
Publication Date: 2007  
Publisher: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA, [URL:<http://www.asm.org/>]

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0019-9567

Electronic Issn: 1098-5522

File Segment: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)

Karaolis, David KR; Newstead, Michael W; Zeng, Xianying; Hyodo, Mamoru; Hayakawa, Yoshihiro; Bhan, Urvashi; Liang, Hallie...

Abstract:

...immunity in the lung and protects mice against bacterial invasion. We propose that the cyclic dinucleotide c-di-GMP may be used clinically as an effective immunomodulator, immune enhancer, and vaccine...

3/3,K/2 (Item 2 from file: 24) Links

Fulltext available through: STIC Full Text Retrieval Options

CSA Life Sciences Abstracts

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0002663119 IP Accession No: 6164268

c-di-GMP (3'-5'-Cyclic Diguanilylic Acid) Inhibits Staphylococcus aureus Cell-Cell Interactions and Biofilm Formation

Karaolis, David KR; Rashid, Mohammed H; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro Department of Epidemiology and Preventive Medicine. Department of Medicine, University of Maryland School of Medicine, Baltimore, Maryland. Graduate School of Information Science/Human Informatics and CREST/JST, Nagoya University, Nagoya, Japan  
Antimicrobial Agents & Chemotherapy , v 49 , n 3 , p 1029-1038 , March 2005  
Publication Date: 2005  
Publisher: American Society for Microbiology, 1752 N Street N.W. Washington, DC 20036 USA, [URL:<http://www.asm.org/>]

Document Type: Journal Article

Record Type: Abstract

Language: English

Summary Language: English

ISSN: 0066-4804

File Segment: Bacteriology Abstracts (Microbiology B); Industrial & Applied Microbiology Abstracts (Microbiology A)

Karaolis, David KR; Rashid, Mohammed H; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro

Abstract:

...the scientific, medical, and agriculture communities. We recently proposed that modulating levels of the cyclic dinucleotide signaling molecule, c-di-GMP (cyclic diguanylate [3',5'-cyclic diguanilylic acid], cGpGp), has utility...

Untitled

3/3,K/3 (Item 3 from file: 24) Links  
Fulltext available through: STIC Full Text Retrieval Options  
CSA Life Sciences Abstracts  
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0002414401 IP Accession No: 5770748  
Identification of genes involved in the switch between the smooth and rugose phenotypes of *Vibrio cholerae*

Rashid, MH; Rajanna, C; Ali, A; Karaolis, DK\* Department of Epidemiology and Preventive Medicine, University of Maryland School of Medicine, Baltimore, MD 21201, USA, [mailto:karaolis@umaryland.edu]  
FEMS Microbiology Letters, v 227, n 1, p 113-119, October 10, 2003  
Publication Date: 2003  
Publisher: Federation of European Microbiological Societies

Document Type: Journal Article  
Record Type: Abstract  
Language: English  
Summary Language: English  
ISSN: 0378-1097  
File Segment: Genetics Abstracts; Bacteriology Abstracts (Microbiology B)  
Rashid, MH; Rajanna, C; Ali, A; Karaolis, DK\*

Abstract:  
...for the rugose phenotype, EPS, biofilm formation and motility. We propose that modulation of cyclic dinucleotide (e.g. c-di-GMP) levels might have application in regulating various phenotypes of prokaryotes...

3/3,K/4 (Item 1 from file: 393) Links  
Beilstein Database - Abstracts  
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Beilstein Abstract Id: 6552279  
Title: c-di-GMP (3'-5'-Cyclic Diguanylic Acid) Inhibits *Staphylococcus aureus* Cell-Cell Interactions and Biofilm Formation  
Document Type: Journal Record Type: Abstract  
Author: Karaolis, David K. R.; Rashid, Mohammed H.; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro  
Citation: Antimicrob. Agents & Chemother. (2005) Series: 49-3, 1029 - 1038 CODEN: AMACQ  
Language: English  
Abstract Language: English  
Author: Karaolis, David K. R.; Rashid, Mohammed H.; Chythanya, Rajanna; Luo, Wensheng; Hyodo, Mamoru; Hayakawa, Yoshihiro  
Patent Assignee:  
Abstract: ... the scientific, medical, and agriculture communities. We recently proposed that modulating levels of the cyclic dinucleotide signaling molecule, c-di-GMP (cyclic diguanylate .3',5'-cyclic diguanylic acid., cGpGp), has utility ...

Abstract Language:

3/3,K/5 (Item 2 from file: 393) Links  
Beilstein Database - Abstracts  
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Beilstein Abstract Id: 6521205  
Title: 3',5'-Cyclic Diguanylic Acid Reduces the Virulence of Biofilm-Forming *Staphylococcus aureus* Strains in a Mouse Model of Mastitis Infection  
Document Type: Journal Record Type: Abstract  
Author: Brouillette, Eric; Hyodo, Mamoru; Hayakawa, Yoshihiro; Karaolis, David K. R.; Malouin, Francois

Untitled

Citation: Antimicrob. Agents & Chemother. (2005) Series: 49-8, 3109 - 3113 CODEN: AMACCQ Language: English  
Abstract Language: English  
Author: Brouillette, Eric; Hyodo, Mamoru; Hayakawa, Yoshihiro; Karaolis, David K. R.; Malouin, Francois  
Patent Assignee:  
Abstract: The cyclic dinucleotide 3',5'-cyclic diguanylic acid (c-di-GMP) is a naturally occurring small molecule that...  
Abstract Language:

3/3,K/6 (Item 1 from file: 399) Links  
CA SEARCH(R)  
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148024432 CA: 148(2)24432t PATENT  
Method for stimulating the immune, inflammatory or neuroprotective response  
Inventor (Author): Karaolis, David K. R.  
Location: USA  
Patent: U.S. Pat. Appl. Publ. ; US 20070281897 A1 Date: 20071206  
Application: US 2007669006 (20070130) \*US 2004PV552721 (20040315) \*US 2004PV563692 (20040420) \*US 200579886 (20050315)  
Pages: 60pp., Cont.-in-part of U.S. Ser. No. 79,886.  
CODEN: USXXCO  
Language: English  
Patent Classifications:  
Class: 514044000  
IPCR/8 + Level Value Position Status Version Action Source Office:  
A61K-0031/7076 A I F B 20060101 20071206 H US  
A61P-0031/00 A I L B 20060101 20071206 H US  
A61P-0037/00 A I L B 20060101 20071206 H US

3/3,K/7 (Item 2 from file: 399) Links  
CA SEARCH(R)  
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143279369 CA: 143(16)279369s PATENT  
Method using cyclic di-GMP or cyclic dinucleotide analog thereof for inhibiting cancer cell proliferation or increasing cancer cell apoptosis  
Inventor (Author): Karaolis, David K. R.; Raufman, Jean-Pierre  
Location: USA  
Patent: U.S. Pat. Appl. Publ. ; US 20050203051 A1 Date: 20050915  
Application: US 200579779 (20050315) \*US 2004PV552721 (20040315) \*US 2004PV563692 (20040420)  
Pages: 22 pp.  
CODEN: USXXCO  
Language: English  
Patent Classifications:  
Class: 514045000; A61K-031/7076A

3/3,K/8 (Item 3 from file: 399) Links  
CA SEARCH(R)  
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142367640 CA: 142(20)367640h PATENT  
Method for attenuating virulence of microbial pathogens and inhibiting microbial biofilm formation by using c-di-GMP and cyclic dinucleotide analogs  
Inventor (Author): Karaolis, David K. R.  
Location: USA  
Assignee: University of Maryland  
Patent: PCT International ; WO 200530186 A2 Date: 20050407  
Page 4

Untitled

Application: WO 2004US23498 (20040722) \*US 2003PV490029 (20030728)

Pages: 118 pp.

CODEN: PIXXD2

Language: English

Patent Classifications:

Class: A61K-031/00A

Designated Countries: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW  
Designated Regional: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

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Set	Items	Description
S1	83	S E1-E12
S2	12	S S1 AND DINUCLEOTIDE
S3	8	RD (unique items)